

J1042 U.S. PTO
03/12/01

03-13-01

PTO/SB/05 (08-00)

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages 18] (preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
5. Oath or Declaration [Total Pages 4]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 17 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

Attorney Docket No. 424P045

First Inventor Katsuya Sangu

Title Positioning apparatus used in a process for producing multi-layered printed circuit...

Express Mail Label No. EI724599923US

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No. _____ / _____

Prior application information

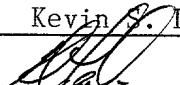
Examiner _____

Group / Art Unit _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS Customer Number or Bar Code Label Insert Customer No. or Attach bar code label hereor Correspondence address below

| | | | |
|---------|---|-----------|----------------|
| Name | Kevin S. Lemack | | |
| Address | Nields & Lemack 176 E. Main Street - Suite 8 | | |
| City | Westboro | State | MA |
| Country | U.S.A. | Telephone | (508) 898-1818 |
| | | Zip Code | 01581 |

| | | | |
|-------------------|---|-----------------------------------|--------|
| Name (Print/Type) | Kevin S. Lemack | Registration No. (Attorney/Agent) | 32,579 |
| Signature |  | | |
| | Date 3/12/01 | | |

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 910.00)

Complete if Known

| | |
|----------------------|--------------------------|
| Application Number | Not yet assigned |
| Filing Date | Herewith By Express Mail |
| First Named Inventor | Katsuya Sangu |
| Examiner Name | Not yet assigned |
| Group Art Unit | Not yet assigned |
| Attorney Docket No. | 424P045 |

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

| | |
|------------------------|-----------------|
| Deposit Account Number | 14-0930 |
| Deposit Account Name | Nields & Lemack |

Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17
 Applicant claims small entity status See 37 CFR 1.27

2. Payment Enclosed:

Check Credit card Money Order Other

FEE CALCULATION (continued)

3. ADDITIONAL FEES

| Fee Code (\$) | Large Entity Fee (\$) | Small Entity Fee (\$) | Fee Description | Fee Paid |
|-----------------------------------|-----------------------|-----------------------|-----------------|--|
| 105 | 130 | 205 | 65 | Surcharge - late filing fee or oath |
| 127 | 50 | 227 | 25 | Surcharge - late provisional filing fee or cover sheet |
| 139 | 130 | 139 | 130 | Non-English specification |
| 147 | 2,520 | 147 | 2,520 | For filing a request for ex parte reexamination |
| 112 | 920* | 112 | 920* | Requesting publication of SIR prior to Examiner action |
| 113 | 1,840* | 113 | 1,840* | Requesting publication of SIR after Examiner action |
| 115 | 110 | 215 | 55 | Extension for reply within first month |
| 116 | 390 | 216 | 195 | Extension for reply within second month |
| 117 | 890 | 217 | 445 | Extension for reply within third month |
| 118 | 1,390 | 218 | 695 | Extension for reply within fourth month |
| 128 | 1,890 | 228 | 945 | Extension for reply within fifth month |
| 119 | 310 | 219 | 155 | Notice of Appeal |
| 120 | 310 | 220 | 155 | Filing a brief in support of an appeal |
| 121 | 270 | 221 | 135 | Request for oral hearing |
| 138 | 1,510 | 138 | 1,510 | Petition to institute a public use proceeding |
| 140 | 110 | 240 | 55 | Petition to revive - unavoidable |
| 141 | 1,240 | 241 | 620 | Petition to revive - unintentional |
| 142 | 1,240 | 242 | 620 | Utility issue fee (or reissue) |
| 143 | 440 | 243 | 220 | Design issue fee |
| 144 | 600 | 244 | 300 | Plant issue fee |
| 122 | 130 | 122 | 130 | Petitions to the Commissioner |
| 123 | 50 | 123 | 50 | Processing fee under 37 CFR 1.17(q) |
| 126 | 180 | 126 | 180 | Submission of Information Disclosure Stmt |
| 581 | 40 | 581 | 40 | Recording each patent assignment per property (times number of properties) |
| 146 | 710 | 246 | 355 | Filing a submission after final rejection (37 CFR § 1.129(a)) |
| 149 | 710 | 249 | 355 | For each additional invention to be examined (37 CFR § 1.129(b)) |
| 179 | 710 | 279 | 355 | Request for Continued Examination (RCE) |
| 169 | 900 | 169 | 900 | Request for expedited examination of a design application |
| Other fee (specify) _____ | | | | |
| *Reduced by Basic Filing Fee Paid | | | | SUBTOTAL (3) (\$ 40.00) |

2. EXTRA CLAIM FEES

| Total Claims | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|-----------------------|----------|
| Independent Claims | 20 | -20** = 0 x 18 = 0 | 0 |
| Multiple Dependent | 5 | - 3*** = 2 x 80 = 160 | 160 |
| | | 270 = 0 | 0 |

Large Entity Small Entity

| Fee Code (\$) | Large Entity Fee (\$) | Small Entity Fee (\$) | Fee Description |
|---------------|-----------------------|-----------------------|--|
| 103 | 18 | 203 | 9 |
| 102 | 80 | 202 | 40 |
| 104 | 270 | 204 | 135 |
| 109 | 80 | 209 | 40 |
| 110 | 18 | 210 | 9 |
| | | | Claims in excess of 20 |
| | | | Independent claims in excess of 3 |
| | | | Multiple dependent claim, if not paid |
| | | | ** Reissue independent claims over original patent |
| | | | ** Reissue claims in excess of 20 and over original patent |

SUBTOTAL (2) (\$ 160.00)

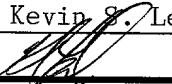
**or number previously paid, if greater; For Reissues, see above

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00)

SUBMITTED BY

Complete (if applicable)

| | | | | | |
|-------------------|---|--------------------------------------|--------|-----------|----------------|
| Name (Print/Type) | Kevin S. Lemack | Registration No. (Attorney/Agent) | 32,579 | Telephone | (508) 898-1818 |
| Signature |  | | | Date | 3/12/01 |

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Attorney Docket No. 424P045

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Katsuya Sangu, Ryoichi Ida, Katsumi Momose and Michitomo Koda

For: **POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD AND METHOD OF USING THE SAME**

Assistant Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

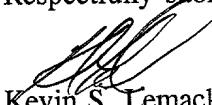
LETTER

The above-identified applicants enclose for filing a patent application entitled "**POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD AND METHOD OF USING THE SAME**". Said attached patent application includes (1) Patent Application Transmittal Letter (1-Page); (2) Patent Application: 18-Page Specification (including 6-Pages of Claims (20) and 1-Page Abstract), 6-sheets of A4 size formal drawings and an executed Declaration and Power of Attorney (4-Pages); (3) Fee Transmittal Form (1-Page), together with a check in the amount of \$910.00 in payment of the Filing Fee and Recording Fee; and (4) Recordation Form cover sheet (1-Page); Assignment (1-Page).

All correspondence concerning this application should be mailed to:

Kevin S. Lemack
Nields & Lemack
176 E. Main Street - Suite 8
Westboro, Massachusetts 01581

Respectfully submitted,



Kevin S. Lemack
Attorney for Applicant
Registration No. 32,579

Date: March 12, 2001

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Katsuya Sangu, et al.
Serial No. : Not yet assigned
Filed : Herewith By Express Mail
For : POSITIONING APPARATUS USED IN A PROCESS FOR PRODUCING MULTI-LAYERED PRINTED CIRCUIT BOARD AND METHOD OF USING THE SAME
Examiner : Not yet assigned
Art Unit : Not yet assigned
Attorney
Docket No. : 424P045
Type of paper : Letter

"EXPRESS MAIL" MAILING LABEL NO. EI724599923US

DATE OF DEPOSIT: March 12, 2001

I hereby certify that this patent application is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" Service under 37 CFR 1.10 on the date indicated above and is addressed to: Assistant Commissioner of Patents and Trademarks, **BOX: PATENT APPLICATION**, Washington, D.C. 20231.

Ann Marie Mahan

Name of person mailing paper or fee

Ann Marie Mahan

Signature of person mailing paper or fee